

Recombinant Human Interferon, Gamma-Inducible Protein 30, His-tagged

Cat. No. IFI30-7185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IFI30 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW: 22.5 kDa.
Species	Human
Source	E.coli
ProteinLength	58-232aa
Description	IFI30, also as known as gamma-interferon-inducible lysosomal thiol reductase, belongs to the GILT family. This protein is a lysosomal thiol reductase that at low pH can reduce protein disulfide bonds. The enzyme is expressed constitutively in antigen-presenting cells and induced by gamma-interferon in other cell types. This enzyme has an important role in MHC class II-restricted antigen processing. This protein facilitates the generation of MHC class II-restricted epitodes from disulfide bond-containing antigen by the endocytic reduction of disulfide bonds. Also facilitates MHC class I-restricted recognition of exogenous antigens containing disulfide bonds by CD8+ T-cells or cross-presentation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	22.5 kDa (199aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNAPLVN VTLYYEALCG GCRAFLIREL FPTWLLVMEI LNVTLVPYGN AQEQNVSGRW EFKCQHGEES CKFNKVEACV LDELDMELAF LTIVCMEEFE DMERSLPLCL QLYAPGLSPD TIMECAMGDR GMQLMHANAQ RTDALQPPHE YVPWVTVNGK PLEDQTQLLT LVCQLYQGK
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	IFI30 interferon, gamma-inducible protein 30 [Homo sapiens]
Official Symbol	IFI30
Synonyms	IFI30; interferon, gamma-inducible protein 30; GILT; IP30; IFI-30; gamma-interferon-inducible lysosomal thiol reductase; legumaturain; gamma-interferon-inducible protein IP-30; interferon gamma-inducible protein 30 preproprotein; MGC32056; EC 1.8; Legumaturain
Gene ID	10437
mRNA Refseq	NM_006332
Protein Refseq	NP_006323

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MIM	604664
UniProt ID	P13284
Chromosome Location	19p13.1
Pathway	Adaptive Immune System; Antigen processing and presentation; Cytokine Signaling in Immune system; Immune System; Interferon Signali
Function	oxidoreductase activity, acting on a sulfur group of donors

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